What Is Claimed Is:

1.   A method for recognizing a key in a terminal apparatus having a key matrix structure consisting of a plurality of lines and rows, in which corresponding bits are respectively assigned, the method comprising the steps of:

recognizing pushing of and detaching from a key by using a difference between a current key status value on the key matrix and a previous key status value according to a change of the key status, and

obtaining a positional value of an inputted key on the key matrix by using a relational expression considering difference values between adjacent rows in each line and between adjacent lines in each row and a difference between the previous key value and the current key value.

2.   The method of claim 1, wherein the relational expression is $2^{j+5} + 2^i$ whereby i and j are variants representing the lines and rows of the key matrix.

3.   The method of claim 1, wherein the pushing of the key is recognized when a value subtracting the previous key status value from the current key status value is a positive number, and the detaching from the key is recognized when a value subtracting the previous key status value from the current key status value is a negative number.

4.   A method for recognizing a key in a terminal apparatus having a matrix structure, the method comprising the steps of:

recognizing pushing of and detaching from a key by using a difference between a previous key status value on the key matrix and a current key status value according to a change of the key status;

calculating variants i and j by using a relation "the current key status value – the previous key status value $= 2^{j+5} + 2^{i}$"; and

obtaining a positional value of an inputted key on the key matrix by means of i and j.

5.   The method of claim 4, wherein the positional value of the inputted key is key [i][j] whereby "i" represents a position of a line in the key matrix, and "j" represents a

position of a row in the key matrix.

6.   A method for recognizing a key in a terminal apparatus having a key matrix structure, comprising the steps of:

5   calculating variants i and j by using a relation "a current key status value – a previous key status value = $2^{j+5} + 2^{i}$" between the previous key status value on the key matrix and the current key status value according to a change of the key status; and

obtaining a positional value of an inputted key that is key [i][j] on the key matrix by means of the variants i and j whereby "i" represents a position of a line in the key

10   matrix, and "j" represents a position of a row in the key matrix.

7.   A method for recognizing a key in a terminal apparatus having a key matrix structure, comprising the steps of:

storing a first key status value according to a change of a key status on the key

15   matrix in a first temporary storing unit;

storing a second key status value according to a change of a key status after storing the first key status value in a second temporary storing unit;

recognizing pushing of and detaching from a key on the key matrix by using a difference between the stored first key status value and the second key status value;

20   calculating variants i and j by using a relation "the second key status value – the first key status value = $2^{j+5} + 2^{i}$"; and

obtaining a positional value of an inputted key on the key matrix by using the variants i and j.

25   8.   The method of claim 7, wherein a positional value of an inputted key is [i][j] whereby "i" represents a position of a line in the key matrix, and "j" represents a position of a row in the key matrix.

9.   The method of claim 7, further comprising the step of obtaining a

30   positional value of the inputted key, and storing the second key status value in the first temporary storing unit.